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DOCKET NO.: M0656.70055US00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Venkataraman et al.
Serial No.: 09/557,997
Confirmation No.: 7686
Filed: April 24, 2000
For: METHOD FOR ANALYZING POLYSACCHARIDES
Examiner: Carolyn L. Smith
Art Unit: 1631

Express Mail Label No. EV492322844US

Certificate of Express Mailing Under 37 CFR 1.10

Dated: Oct 5, 2006

MAIL STOP AMENDMENT

Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith are the following documents:

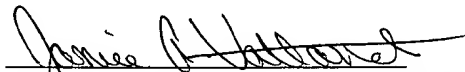
- Information Disclosure Statement
- PTO Form 1449 with cited references
- Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 646-8000, Boston, Massachusetts.

A check in the amount of \$180 is enclosed to cover the filing fee. If the fee is insufficient, the balance may be charged to Deposit Account 23/2825. A duplicate of this sheet is enclosed.

Respectfully submitted,

By:


Janice A. Vatland, Ph.D., Reg. No.: 52,318
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Docket No.: M0656.70055US00
Date: October 5, 2006
xNDDx



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STATEMENT FILED PURSUANT TO THE DUTY OF
DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98

10/10/2006 CNGUYEN2 00000002 09557997

01 FC:1806 Sir: 180.00 OP

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed more than three months after the filing date of this application and after the mailing date of the first Office action, but before the mailing date of any final action under 37 C.F.R. §1.113, a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in this application.

The fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) is enclosed.

PART II: Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified PTO/SB/08). The order of presentation of the references should not be construed as an indication of the importance of the references.

995386.1

The Applicant hereby makes the following additional information of record in the above-identified application.

The Applicant would like to bring to the Examiner's attention the following co-pending applications that may contain subject matter related to this application:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>	<u>Docket No.</u>
11/332,766	01-12-2006	Sengupta et al.	*M0656.70113US02
11/432,834	05-11-2006	Sasisekharan et al.	*M0656.70096US04
11/433,244	05-11-2006	Sasisekharan et al.	*M0656.70096US01
11/433,288	05-11-2006	Sasisekharan et al.	*M0656.70096US03
11/433,340	05-11-2006	Sasisekharan et al.	*M0656.70096US02
11/518,389	09-08-2006	Pojasek et al.	*M0656.70095US03
11/518,394	09-08-2006	Venkataraman et al.	*M0656.70089US03
11/518,534	09-08-2006	Sasisekharan et al.	*M0656.70069US02

*A copy of this reference is not provided as the Office has waived the requirement under 37 C.F.R. 1.98(a)(2)(iii) for submitting a copy of a cited U.S. patent application if it is scanned to the Image File Wrapper system and is available on Private PAIR.

PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 (modified PTO/SB/08) be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

Serial No.: 09/557,997
Conf. No.: 7686

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Art Unit: 1631

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

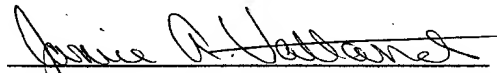
By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his or her own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

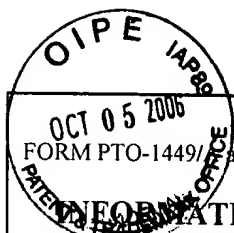
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FORM PTO-1449/ and B (modified PTO/SB/08)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 1 of 13

APPLICATION NO.: 09/557,997
 FILING DATE: April 24, 2000
 ATTY. DOCKET NO.: M0656.70055US00
 CONFIRMATION NO.: 7686
 APPLICANT: Venkataraman et al.
 GROUP ART UNIT: 1631
 EXAMINER: Carolyn L. Smith

U.S. PATENT DOCUMENTS

Examiner's Initials #	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or Issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
	A73	4,303,651		Lindahl et al.	12-01-1981
	A74	4,486,420		Lormeau et al.	12-04-1984
	A75	4,692,435		Lormeau et al.	09-08-1987
	A76	4,784,820		Kavesh	11-15-1988
	A77	5,110,918		Casu et al.	05-05-1992
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	A93	7,056,504	B1	Sasisekharan et al.	06-06-2006
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	A104	2003-0096281		Venkataraman et al.	05-22-2003
	A105	2003-0099628	A1	Liu et al.	05-29-2003

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449/A and B (modified PTO/SB/08) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 09/557,997		ATTY. DOCKET NO.: M0656.70055US00	
				FILING DATE: April 24, 2000		CONFIRMATION NO.: 7686	
				APPLICANT: Venkataraman et al.			
				GROUP ART UNIT: 1631		EXAMINER: Carolyn L. Smith	
Sheet	2	of	13				

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	A109	2004-0087543		Shriver et al.	05-06-2004
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	A125	2006-0024664	A1	Sasisekharan et al.	02-02-2006
	A126	2006-0057638	A1	Bosques et al.	03-16-2006
	A127	2006-0067927	A1	Chandrasekaran et al.	03-30-2006
	A128	2006-0067928	A1	Liu et al.	03-30-2006
	A129	2006-0078959	A1	Prabhakar et al.	04-13-2006
	A130	2006-0083711	A1	Berry et al.	04-20-2006
	A131	2006-0105430	A1	Sasisekharan et al.	05-18-2006
	A132	2006-0127950	A1	Bosques et al.	06-15-2006
	A133	2006-0154894	A1	Berry et al.	07-13-2006
	A134	2006-0177885	A1	Myette et al.	08-10-2006
	A135	2006-0177910	A1	Myette et al.	08-10-2006
	A136	2006-0177911	A1	Myette et al.	08-10-2006
	A137	2006-0182734	A1	Liu et al.	08-17-2006
	A138	2006-0183713	A1	Liu et al.	08-17-2006
	A139	2006-0183891	A1	Myette et al.	08-17-2006

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Sheet	3	of	13				

FOREIGN PATENT DOCUMENTS

Examiner's Initials #	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
	B31	EP	0 747 705	A1	Bayer AG	12-11-1996	
	B32	WO	96/13606		Cancer Research Campaign Technology Limited	05-09-1996	
	B33	WO	96/28169	A1	Medical College of Hampton Roads	09-19-1996	
	B34	WO	99/28462	A2	Genentech, Inc.	06-10-1999	
	B35	WO	2006/089206	A2	Massachusetts Institute of Technology	08-24-2006	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials #	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
	C109	[No Author Listed] Aqua Peptides. Online at http://www.sigmaaldrich.com . Printed 7/8/2005.	
	C110	[No Author Listed] MIT News Office. "MIT Tool Impacts Multi-Billion Dollar Drug." Online at http://www.sciencedaily.com . Printed 9/21/00.	
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	C114	BELANGER et al., Molecular mass and carbohydrate structure of prostate specific antigen: studies for establishment of an international PSA standard. Prostate. 1995 Oct;27(4):187-97.	
	C115	BENGTTSSON et al., Interaction of lipoprotein lipase with native and modified heparin-like polysaccharides. Biochem J. 1980 Sep 1;189(3):625-33.	
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Sheet	4	of	13		

	C120	CALLAS et al., Comparative pharmacologic profile of a glycosaminoglycan mixture, Sulodexide, and a chemically modified heparin derivative, Suleparoid. Semin Thromb Hemost. 1993;19 Suppl 1:49-57.	
	C121	CASU et al., Structural characterization of low molecular weight heparins. Semin Thromb Hemost. 1999;25 Suppl 3:17-25.	
	C122	CASU et al., Characterization of sulfation patterns of beef and pig mucosal heparins by nuclear magnetic resonance spectroscopy. Arzneimittelforschung. 1996 May;46(5):472-7.	
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	C125	DAI et al., HSulf-1 and HSulf-2 are potent inhibitors of myeloma tumor growth in vivo. J Biol Chem. 2005 Dec 2;280(48):40066-73.	
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	C131	DUTEIL et al., Identification of heparin oligosaccharides by direct coupling of capillary electrophoresis/ionspray-mass spectrometry. Rapid Commun Mass Spectrom. 1999;13(19):1889-98.	
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	C134	GACESA et al., Enzymic degradation of alginates. Int J Biochem. 1992 Apr;24(4):545-52.	
	C135	GANDRA et al., Anticoagulant sulfated glycosaminoglycans in the tissues of the primitive chordate Styela plicata (Tunicata). Glycobiology. 2000 Dec;10(12):1333-40.	
	C136	GAUCHER et al., STAT: a saccharide topology analysis tool used in combination with tandem mass spectrometry. Anal Chem. 2000 Jun 1;72(11):2331-6.	
	C137	GU et al., Purification, characterization and specificity of chondroitin lyases and glycuronidase from Flavobacterium heparinum. Biochem J. 1995 Dec 1;312 (Pt 2):569-77.	
	C138	HABUCHI et al., Diversity and functions of glycosaminoglycan sulfotransferases. Biochim Biophys Acta. 2000 Apr 6;1474(2):115-27.	
	C139	HARVEY et al., Identification of protein-bound carbohydrates by mass spectrometry. Proteomics. 2001 Feb;1(2):311-28.	

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Sheet	5	of	13		

C140	HASHIMOTO et al., Unsaturated glucuronyl hydrolase of <i>Bacillus</i> sp. GL1: novel enzyme prerequisite for metabolism of unsaturated oligosaccharides produced by polysaccharide lyases. <i>Arch Biochem Biophys.</i> 1999 Aug 15;368(2):367-74.	
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C142	HRICOVINI et al., Structure of heparin-derived tetrasaccharide complexed to the plasma protein antithrombin derived from NOEs, J-couplings and chemical shifts. <i>Eur J Biochem.</i> 1999 May;261(3):789-801.	
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C148	KAJI et al., Lectin affinity capture, isotope-coded tagging and mass spectrometry to identify N-linked glycoproteins. <i>Nat Biotechnol.</i> 2003 Jun;21(6):667-72. Abstract Only.	
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C151	KÜSTER et al., 18O-labeling of N-glycosylation sites to improve the identification of gel-separated glycoproteins using peptide mass mapping and database searching. <i>Anal Chem.</i> 1999 Apr 1;71(7):1431-40.	
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C153	LANDBERG et al., Changes in glycosylation of human bile-salt-stimulated lipase during lactation. <i>Arch Biochem Biophys.</i> 2000 May 15;377(2):246-54.	
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C156	LINDAHL et al., Common binding sites for beta-amyloid fibrils and fibroblast growth factor-2 in heparan sulfate from human cerebral cortex. <i>J Biol Chem.</i> 1999 Oct 22;274(43):30631-5.	
C157	LOPEZ et al., Microheterogeneity of the oligosaccharides carried by the recombinant bovine lactoferrin expressed in <i>Mamestra brassicae</i> cells. <i>Glycobiology.</i> 1997 Jul;7(5):635-51.	
C158	LYON et al., Bio-specific sequences and domains in heparan sulphate and the regulation of cell growth and adhesion. <i>Matrix Biol.</i> 1998 Nov;17(7):485-93.	

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Sheet	6	of	13				

	C159	MA et al., Carbohydrate analysis of a chimeric recombinant monoclonal antibody by capillary electrophoresis with laser-induced fluorescence detection. Anal Chem. 1999 Nov 15;71(22):5185-92.	
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*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. __, filed __, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

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